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1 **SHOCK ISOLATION BEARINGS AND TRAVEL LIMIT GAPS**
2 **IN A SPINDLE MOTOR**
3 **AND DISK DRIVE USING THE SAME**
4

5 **ABSTRACT OF THE DISCLOSURE**

6 Disclosed herein are disk drive spindle motors and disk drives using same that include
7 one of more structures that function as travel limit stops that are designed to transfer the load
8 created by a shock impulse to non-essential mechanical features and bypass the bearing
9 structures, thereby keeping the load imposed thereon by the shock impulse below damaging
10 levels. The spindle motor may also include one or more compliant members between the bearing
11 structures and facing surfaces. Such compliant members may be combined with pre-load keepers
12 that preload the bearings by axially compressing the compliant members.

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